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Amendments to the Claims

Claims 1-6 (Canceled)

7. (Currently Amended) An interface apparatus comprising:

a processor for receiving at least one network interface signal, and for recognizing a transport mechanism associated with each network interface signal;

a bus interface device for generating at least one system interface signal in response to the recognized transport mechanism; wherein:

the transport mechanism comprises at least one of Asynchronous Transfer Mode, Internet Protocol, Frame Relay, Integrated Services Digital Network, High bit-rate Digital Subscriber Line, Asymmetric Digital Subscriber Line, Very High Data Rate Digital Subscriber Line, Symmetric Digital Subscriber Line, 10 base T, 100 base T, Gigabit Ethernet and E1/T1;

the processor further examines a pattern for each network interface signal to recognize the associated transport mechanism;

each system interface signal is coupled with at least one of a circuit switched interface, a packet switched interface, and a combined circuit packet switched interface;

the transport mechanism comprises an adaptation layer of Asynchronous

Transfer Mode, the processor performs ATM adaptation layer processing on each

Network Interface signal in response to the recognized transport mechanism; and

The interface apparatus of Claim 6, wherein at least one of the processor and the bus interface device matches a timing of the circuit switched interface and formats the ATM adaptation layer processed Network-Interface network interface signal to the corresponding System Interface system interface signal.

8. (Currently Amended) The interface apparatus of Claim 7, comprising a control switch for partitioning and switching the performance of the matching the

timing and the performance of the formatting the ATM adaptation layer processed Network Interface network interface signal between the processor and the bus interface device in response to a control signal.

9. (Canceled)

10. (Currently Amended) An interface apparatus comprising:

a processor for receiving at least one network interface signal, and for recognizing a transport mechanism associated with each network interface signal;

a bus interface device for generating at least one system interface signal in response to the recognized transport mechanism; wherein:

the transport mechanism comprises at least one of Asynchronous Transfer Mode, Internet Protocol, Frame Relay, Integrated Services Digital Network, High bit-rate Digital Subscriber Line, Asymmetric Digital Subscriber Line, Very High Data Rate Digital Subscriber Line, Symmetric Digital Subscriber Line, 10 base T, 100 base T, Gigabit Ethernet and E1/T1;

the processor further examines a pattern for each Network Interface signal to recognize the associated transport mechanism;

each system interface signal is coupled with at least one of a circuit switched interface, a packet switched interface, and a combined circuit packet switched interface;

at least one of the processor and the bus interface device converts each network interface signal to correspond with the packet switched interface and routes each converted network interface signal; and

The the interface apparatus of Claim 9, comprising further comprises a control switch for partitioning and switching the performance of the converting each Network Interface signal and the routing each converted Network Interface signal each said network interface signal conversion and each said network

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<u>interface signal routing</u> in response to a control signal between the processor and the bus interface device.

Claims 11-20 (Canceled)